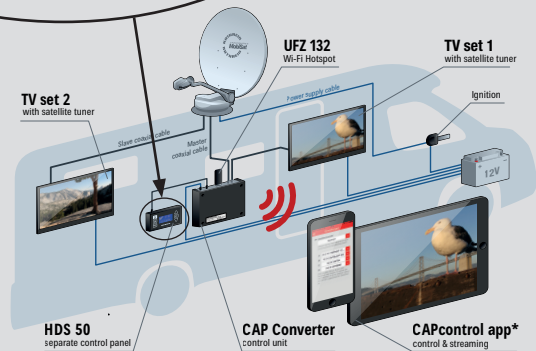


Instructions for use

HDS 50
English

IMPORTANT
Read carefully
before use!



KATHREIN
Digital Systems GmbH

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1. About This Guide

These instructions for use describe how to connect and operate the HDS 50.

- ▶ For more information, visit our website www.kathrein-ds.com.
 - ⇒ The manuals are available for download at the HDS 50 product page.

2. Explanation of Symbols and Signal Words

2.1. Symbols

	Fall hazard
	Risk of material damage or malfunction

2.2. Signal Words

CAUTION	This signal word indicates a hazard with a low level of risk which can lead to minor or moderate injuries.
NOTICE	This signal word indicates a hazard which can lead to damage to property or malfunction.
Tip	This signal word indicates useful tips and recommendations.

2.3. Other Symbols

Symbol	Definition
▶	Operating instruction
1, 2, 3...n	Operating instructions in a fixed order
⇒	Result of an operating instruction
✓	Condition for the execution of an operating instruction
•	List/list entry
Automatic	Menu items, settings or push buttons in the user interface of the HDS 50 or CAP converter.

3. Intended Use

The HDS 50 is an optional control unit with a display for the operation of the CAP 650 GPS, CAP 750 GPS, CAP 850 GPS, HDP 950 and CAP 950.

Any use other than that specified above will invalidate the warranty or guarantee.

The following circumstances result in the loss of all warranty and liability claims towards the manufacturer:

- impermissible use
- all kinds of interventions and changes in the electronics, mechanical design, labelling or operating software of the unit
- removal of components or labelling on the unit or its components

Tip

Keep these instructions for further reference and if the unit passes to another owner, pass them on to the new owner.

4. Safety Instructions



NOTICE

Risk of material damage due to

improper use or damage to the unit!

Improper interventions in the unit may jeopardise its functionality. Opening the unit or changing it and attempting to repair it yourself voids all warranty claims.

- ▶ Do not open, change or damage the unit.
 - ▶ Keep and operate the unit out of reach of children.
-

operating the unit in inappropriate ambient conditions or due to improper cleaning!

- ▶ Use the unit indoors only.
 - ▶ Protect the unit from moisture, liquids, dripping and splashing water.
 - ▶ Do not operate the unit in damp areas.
 - ▶ Only use the unit in a moderate climate, not in tropical conditions.
 - ▶ Restrict cleaning to the outer surface of the unit only.
 - ▶ Use a dry cloth for cleaning.
 - ▶ Ensure that the unit is stored and operated only within the permitted temperature range from -10 °C to $+40\text{ °C}$.
 - ▶ Do not expose the unit to direct sunlight.
-



CAUTION

Trip hazard due to cables!

- ▶ Lay all cables such that nobody can tread on them or trip over them.
-

5. Transport and Storage

Transport

- ▶ If possible, transport the unit in its original packaging.

Storage

- ▶ Store the unit
 - in a dry place,
 - indoors,
 - and in a safe and stable position to prevent mechanical vibrations and damage to the unit.

6. Device description

6.1. Functional Specification

The HDS 50 is an optional control unit for the operation of the automatic turntables CAP 650 GPS, CAP 750 GPS, CAP 850 GPS, HDP 950 and CAP 950.



6.2. Scope of Delivery





- HDS 50
- connection cable, 3 m
- Instructions for use

6.3. Operating and Display Elements



Abb. 1: Operating and display elements

No.	Push button	Function
①		opens the CAP or moves it to the parking position
②		<ul style="list-style-type: none">• opens the Settings menu• opens and closes menus

No.	Push button	Function
③		opens the satellite list
④		marks the above menu item in an opened menu
⑤		marks the below menu item in an opened menu
⑥		<ul style="list-style-type: none"> • activates the marked menu item • opens the selected menu
⑦	Display	displays different conditions and fault indications of the CAP

6.4. Technical Data

Type	Unit	HDS 50
Order number		20410070
Operating voltage	V	5 DC / max. 0.1 A
Data interface		RJ12 jack
Display	px	128 x 64
Casing material		ABS
Operating temperature	C	-10 – +40
Moisture		max. 95%, not condensing
Corresponds to the standards		EN 61 000-6-1, EMC – Immunity EN 61 000-6-3, EMV – Emission
Dimensions (W x H x D)	mm	126 x 68 x 26

7. Installing the Device

7.1. Installation Instructions



NOTICE

Risk of material damage when using countersunk head screws!

- ▶ Under no circumstances use countersunk head screws for installation (see figure on the right).
 - ▶ Make sure that the screw diameter is 3.5 mm max. and that the screw head diameter is at least 7 mm and 9.5 mm max.
 - ▶ For wall mounting, use screws suitable for the surface on which the unit is mounted.
 - ▶ Use the supplied drilling template for the installation; see *Drilling Template*, p. 15.
-



7.2. Installing the Device

To hang the HDS 50:

1. Drive the screws into the wall leaving a gap of about 2 mm.
2. Do some fine adjustment to ensure that they are firmly seated.

To lay the cable in the wall:

- ▶ Drill a through hole with a diameter of 12 mm (see *Drilling Template*, p. 15).

8. Operating HDS 50

8.1. Connecting the Device

Using the RJ12 jack, connect the control unit to the **Control Unit** socket of the CAP converter.

8.2. Turning the Device on and off

As soon as a button is pressed, the unit turns on. The unit turns off automatically as soon as there is no more operation.

8.3. Opening the CAP or Lowering it into the Park Position

Opening the CAP

- ✓ The CAP is in the park position.



⇒ The antenna is moving up and searching for the last set satellite. The display on the right is shown.



⇒ After the satellite has been found, a fine adjustment of the antenna is carried out. The display shows the image on the right.



⇒ The display on the right is shown after a successful satellite search. The found satellite, the signal strength and the signal quality are displayed.



Moving CAP to the Park Position

- ✓ The CAP is in the parking position.







⇒ The antenna automatically moves to the park position. The display on the right is shown.



⇒ When the antenna is in the park position, the display on the right is shown.







8.4. Selecting a Satellite

1. Press .
⇒ The satellite list is displayed (see figure on the right).
2. Press  or  to select a satellite.
⇒ The selected satellite is marked in black.
3. Press  to start the search.
⇒ The selected satellite is being searched and saved. The same images appear as in paragraph *Opening the CAP*, p. 9.



8.5. Changing Settings

To open a submenu:

1. Press .
⇒ The list with submenus is displayed.
2. Press  or  to highlight a submenu.
⇒ The selected submenu is marked in black.
3. Press  to open the submenu.

In the following chapters, these three steps are presented in the short form:

-  ► Select Name of the submenu.

8.5.1 Setting the Location

For CAP 650 GPS, CAP 750 GPS, CAP 850 GPS, HDP 950 and CAP 950: you can speed up the satellite search by setting the current location – country and position (north/middle/south).

1.  ► **Current Location.**
⇒ Displays a list with countries.
2. Press  or  to highlight a country.
3. Press  to confirm the selection.
4. Press  or  to highlight **Middle, North or South.**
5. Press  to confirm the selection.

8.5.2 Activating/Deactivating DiSEqC



In this submenu, you can activate or deactivate DiSEqC:

-  ► **Select DiSEqC TV.**

DiSEqC disabled	Aligning towards a satellite or changing between satellites is only possible with the HDS 50.
DiSEqC enabled	<p>Aligning towards a satellite or changing between satellites is controlled via the TV set or the sat receiver using DiSEqC 1.0.</p> <p>If DiSEqC is activated, the four satellites can be defined.</p> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p>Tip If there is no image shown on your TV, check the DiSEqC settings of your TV set and, if necessary, set a different satellite in the HDS 50 with the DiSEqC enabled.</p> </div>

8.5.3 Changing Search Transponders


It is possible that the frequency of a search transponder changes. In this submenu, you can select a different search transponder. For the up-to-date search transponders and programme lists including the installation guide, go to <http://www.kathrein-ds.com>.

▶  ▶ Search transpond. ▶ 

8.5.4 Starting from the Park Position

In this submenu, you can select how the antenna is moved from the park position.

▶  ▶ Start from park. ▶ 

Automatic	The CAP unit opens automatically when the TV or sat receiver are switched on.
Manual	▶ Press  to move the CAP unit from the park position.

8.5.5 Resetting the Device

1.  ▶ Reset ▶ 

⇒ The confirmation prompt is displayed.

2. Confirm the prompt.

⇒ All stored satellite positions are deleted. The antenna moves to the park position.

8.5.6 Displaying the Version Number

▶  ▶ Software version ▶ 

⇒ The software version of the CAP converter, date of the channel list, the software version of the CAP and the bundle name are displayed.

8.5.7 Changing the Language

In this submenu you can change the user interface language.

1.  ▶ Language ▶ 

9. Troubleshooting

The Device is Turned On

Display	Possible cause	Remedy
No connection to CAP!	F-cable of the CAP is connected to an incorrect socket of the CAP converter.	▶ Check if the CAP and CAP converter are connected correctly.
Satellite not found!	A tree, building or similar prevents the antenna from having a clear line of sight to the satellite.	▶ Park the vehicle in a different spot to guarantee a direct line of sight to the satellite.
The turntable has reached the mechanical stop!	An object prevents the CAP from turning.	▶ Make sure that the CAP can turn freely.
Voltage supply is inadequate!	Battery too low or defective	▶ Charge or replace the battery.
The antenna temperature is in the critical range!	Overload due to a continuous satellite search combined with a very high outside temperature	▶ Lower the CAP into the park position and let it cool down.

10. Maintenance and Cleaning

- ▶ Restrict cleaning to the outer surface of the unit only.
- ▶ Use a dry cloth for cleaning.

11. Repair and Replacement

CSS Caravan-Sat-Service GmbH

Repair Centre

Bahnhofstr. 110

D-83224 Grassau

Germany

Phone +49 8641 69984 -27

+49 8641 69984-29

Email: service@css-grassau.de

<http://www.css-grassau.de>

12. Service Centres

Technical Customer Support

KATHREIN Digital Systems GmbH

Phone +49 731 270 909 70

Email: support@kathrein-ds.com

Camping & Caravan Customer Support

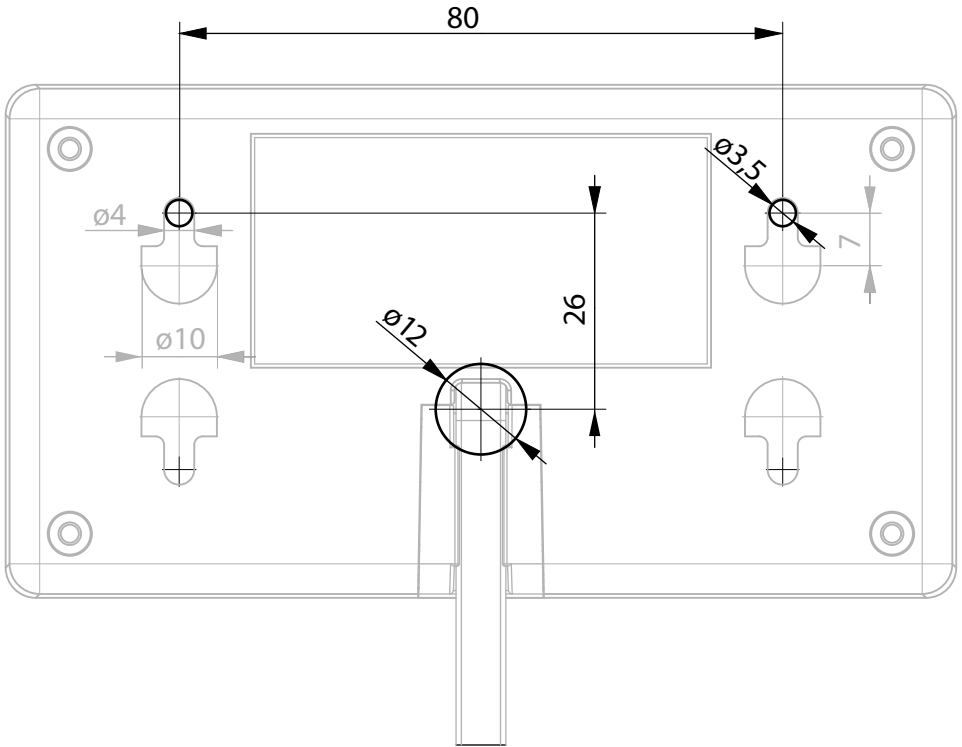
If, after reading this manual, you have outstanding questions or cannot solve a problem, contact our Camping & Caravan Customer Support at www.kathrein-ds.com

13. Disposal



Electronic equipment is not domestic waste – in accordance with directive 2012/19/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL dated 04th July 2012 concerning used electrical and electronic appliances, it must be disposed of properly. At the end of its service life, take this unit for disposal at a designated public collection point.

14. Drilling Template



15. Connection example

